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1 [Tar and Taper for Linux: Learn to use tar and the friendly taper archival tools.](#)

Yusuf Nagree

February 1996 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: [html\(33.29 KB\)](#) Additional Information: [full citation](#), [index terms](#)

2 [Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems](#)

Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM Press

Full text available: [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

**Keywords:** DB2, content management, database backup, database recovery, datalinks

3 [DLFM: a transactional resource manager](#)

Hui-I Hsiao, Inderpal Narang

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(124.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The DataLinks technology developed at IBM Almaden Research Center and now available in DB2 UDB 5.2 introduces a new data type called DATALINK for a database to reference and manage files stored external to the database. An external file is put under a database

control by "linking" the file to the database. Control to a file can also be removed by "unlinking" it. The technology provides transactional semantics with respect to linking or unlinking the file when DATALINK ...

4 Peer-to-peer infrastructure: Pastiche: making backup cheap and easy



Landon P. Cox, Christopher D. Murray, Brian D. Noble  
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

**Publisher:** ACM Press

Full text available: pdf(1.65 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Backup is cumbersome and expensive. Individual users almost never back up their data, and backup is a significant cost in large organizations. This paper presents *Pastiche*, a simple and inexpensive backup system. Pastiche exploits excess disk capacity to perform peer-to-peer backup with no administrative costs. Each node minimizes storage overhead by selecting peers that share a significant amount of data. It is easy for common installations to find suitable peers, and peers with high ove ...

5 Efficient distributed backup with delta compression



Randal C. Burns, Darrell D. E. Long  
November 1997 **Proceedings of the fifth workshop on I/O in parallel and distributed systems**

**Publisher:** ACM Press

Full text available: pdf(1.37 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Bootable restoration cds with Mondo

Craig Swanson, Matt Lung  
October 2003 **Linux Journal**, Volume 2003 Issue 114

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: html(19.96 KB) Additional Information: [full citation](#), [abstract](#)

Do you have a bare-metal recovery plan? Burn a customized, hands-off restore CD for every system on your network.

7 Comparison of Backup Products

Charles Curley  
October 2000 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: html(24.81 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

8 Guard against data loss with mondo rescue

Hugo Rabson  
December 2001 **Linux Journal**, Volume 2001 Issue 92

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: html(18.54 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Looking for an easy open-source backup method?

9 Reliability and security of RAID storage systems and D2D archives using SATA disk drives



Gordon F. Hughes, Joseph F. Murray  
February 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 1


**Publisher:** ACM Press

Full text available:  pdf(94.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Information storage reliability and security is addressed by using personal computer disk drives in enterprise-class nearline and archival storage systems. The low cost of these serial ATA (SATA) PC drives is a tradeoff against drive reliability design and demonstration test levels, which are higher in the more expensive SCSI and Fibre Channel drives. This article discusses the tradeoff between SATA which has the advantage that fewer higher capacity drives are needed for a given system storage c ...

**Keywords:** Disk drive, SATA, SMART, archival storage, failure prediction, secure erase, storage resource management, storage systems architecture

## 10 [The Recovery Manager of the System R Database Manager](#)

 Jim Gray, Paul McJones, Mike Blasgen, Bruce Lindsay, Raymond Lorie, Tom Price, Franco Putzolu, Irving Traiger

June 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 2

**Publisher:** ACM Press


Full text available:  pdf(1.75 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 11 [Revision control with arch: introduction to arch](#)

Nick Moffitt


November 2004 **Linux Journal**, Volume 2004 Issue 127

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  html(22.61 KB) Additional Information: [full citation](#), [abstract](#)

Get started with a new, flexible working style that's convenient for far-flung projects and hacking on your laptop.

## 12 [Recovery Techniques for Database Systems](#)


 Joost S. M. Verhofstad

June 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 2

**Publisher:** ACM Press


Full text available:  pdf(2.32 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 13 [An efficient and flexible method for archiving a data base](#)

 C. Mohan, Inderpal Narang

June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**, Volume 22 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(969.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe an efficient method for supporting incremental and full archiving of data bases (e.g., individual files). Customers archive their data bases quite frequently to minimize the duration of data outage. Because of the growing sizes of data bases and the ever increasing need for high availability of data, the efficiency of the archive copy utility is very important. The method presented here minimizes interferences with concurrent transactions by not acquiring any locks on the data b ...

14 High speed on-line backup when using logical log operations



David B. Lomet

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

**Publisher:** ACM Press

Full text available: pdf(220.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Media recovery protects a database from failures of the stable medium by maintaining an extra copy of the database, called the backup, and a media recovery log. When a failure occurs, the database is "restored" from the backup, and the media recovery log is used to roll forward the database to the desired time, usually the current time. Backup must be both fast and "on-line", i.e. concurrent with on-going update activity. Conventional online backup sequentially copies ...

15 A Linux-Based Automatic Backup System



Michael O'Brien

November 2000 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: html(12.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A step-by-step procedure for establishing a backup system that will save time and money.

16 Scheduling and resource allocation: Samsara: honor among thieves in peer-to-peer storage



Landon P. Cox, Brian D. Noble

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

**Publisher:** ACM Press

Full text available: pdf(290.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Peer-to-peer storage systems assume that their users consume resources in proportion to their contribution. Unfortunately, users are unlikely to do this without some enforcement mechanism. Prior solutions to this problem require centralized infrastructure, constraints on data placement, or ongoing administrative costs. All of these run counter to the design philosophy of peer-to-peer systems. *Samsara* enforces fairness in peer-to-peer storage systems without requiring trusted third parties, ...

**Keywords:** distributed accounting, peer-to-peer storage systems

17 Backup Strategy



Malcolm Murphy

February 1996 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: html(14.98 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Malcolm tells us which files to backup and how often

18 Trustworthy 100-year digital objects: durable encoding for when it's too late to ask



H. M. Gladney, R. A. Lorie

July 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 3

**Publisher:** ACM Press

Full text available: pdf(1.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

How can an author store digital information so that it will be reliably intelligible, even

years later when he or she is no longer available to answer questions? Methods that *might* work are not good enough; what is preserved today should be reliably intelligible whenever someone wants it. Prior proposals fail because they generally confound saved data with irrelevant details of today's information technology---details that are difficult to define, extract, and save completely and accurately ...

**Keywords:** Long-term digital preservation, encoding

19 Worlds: an organizing structure for object-bases



David S Wile, Dennis G Allard

January 1987

**ACM SIGPLAN Notices , Proceedings of the second ACM**

**SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments SDE 2, Volume 22 Issue 1**

**Publisher:** ACM Press

Full text available: pdf(1.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Object-bases are certain to supplant today's file systems in future program development environments. Unfortunately, file systems implicitly provide several important environmental features that are difficult or impossible to obtain using existing object-bases, such as focus of attention, garbage detection and collection, and data sharing. These deficiencies arise from the absence of mechanisms for naming and maintaining aggregations of information in structures larger than single relations ...

20 Principles of transaction-oriented database recovery



Theo Haerder, Andreas Reuter

December 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 4

**Publisher:** ACM Press

Full text available: pdf(2.48 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

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